

## FORM PTO-1449 MODIFIED

List of Patents and Publications  
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Case No. 1731 CON

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APR 29 2002

**TC 1700**

Serial No.

10/054360

Applicant: Klee et al

Filing Date  
January 22, 2002

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## U. S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Subclass
mm	150,262	04/1874	Slavin		
	173,850	02/1876	Emde		
	212,975	04/1879	Perkins et al.		
	543,829	07/1895	Gurnee		
	3,066,112	11/62	Bowen	260	1
	3,150,801	09/64	Hamilton	222	158
	3,200,142	08/65	Bowen	260	286
	3,256,226	06/66	Fekete	260	23.5
	3,317,469	05/67	Feichtinger et al	260	47
	3,327,016	06/67	Lee	260	830

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Translation YES NO
mm	90/15083	12/90	World	ENGLISH ABSTRACT
	90/15084	12/90	World	ENGLISH ABSTRACT
	91/03502	03/91	World	ENGLISH ABSTRACT
	93/10176	05/93	World	IN ENGLISH
	563,464	09/58	Canada	IN ENGLISH

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

mm		Lal et al; Journal of Polymer Science: Vol. XXIV, pages 75-84 (1957) New Polymerization Catalysts for Methyl Methacrylate
		Beaunez et al: Journal of Polymer Science: Part A: Polymer Chemistry, Vol 32, pages 1459-1469 (1994)
		Antonucci et al; Journal of Dental Research 58(9), pages 1887-1899, September 1979; New Initiator Systems for Dental Resins based on Ascorbic Acid
EXAMINER	DATE CONSIDERED 7/5/03	

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mm	3,327,017	06/67	Huang et al	260	844
	3,466,259	09/69	Jernigan	260	37
	3,503,128	03/70	Boyd et al	32	15
	3,539,533	11/70	Lee, II et al	260	17
	3,564,074	02/71	Swisher et al	260	837
	3,586,527	06/71	Aronoff et al	117	93.31
	3,595,969	07/71	Shepherd et al	260	28.5
	3,634,542	01/72	Dowd et al	260	837
	3,673,558	06/72	Toepel et al	260	29.2
	3,709,866	01/73	Waller	260	27

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Translation YES	NO
mm	817,442	07/69	Canada		IN ENGLISH
	878,004	08/71	Canada		IN ENGLISH
	878,006	08/71	Canada		IN ENGLISH
	966,500	04/75	Canada		IN ENGLISH
	983,491	02/76	Canada		IN ENGLISH

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

mm		Chemistry Abstract 115 (1991) 78952z and Chemistry Abstract 115 (1991) 78973g
		Klee et al, Polymer Bulletin 27 (1992); pages 511-517
		Chemical Abstract, Vol. 89, No18, 10/30/78, Columbus OH, US; Abstract No. 148211C; page 71, Column 2; abstract & Lakokras Mater. IKH, Primen., No. 4, 1978, page 50-52

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mm	3,742,949	07/73	Hill	128	218
	3,754,054	08/73	Khura et al	260	860
	3,769,336	10/73	Lee, Jr. et al	260	486
	3,815,239	06/74	Lee, Jr. et al	32	15
	3,835,090	09/74	Gander et al	260	42.15
	3,845,009	10/74	Gander	260	42.15
	3,853,962	12/74	Gander	260	486
	3,882,187	05/75	Takiyama et al	260	835
	3,889,385	06/75	Dougherty	32	12
	3,926,906	12/75	Lee, II et al	260	42.53

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Translation YES NO
mm	987,044	04/76	Canada	IN ENGLISH
	995,667	08/76	Canada	IN ENGLISH
	1,018,294	09/77	Canada	IN ENGLISH
	1,030,979	05/78	Canada	IN ENGLISH
	1,099,848	04/81	Canada	IN ENGLISH

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

mm		Dusek et al; American Chemical Society (1984) Transesterification and Gelation of Polyhydroxy Esters Formed from Diepoxides and Dicarboxylic Acids
		Hartel et al; (11/1984) Zur Synthese linearer Additionspolymere aus Diandiglycidether und Dicarbonsauren
		Klee; Acta Polymer 44, 163-167 (1993); Synthesis and investigation of $\alpha$ ,w-methacryloyl poly (epoxide-carboxylic acid and $\alpha$ ,w-methacryloyl poly (epoxide-phenol)- macromonomers

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mm	3,971,765	07/76	Green et al	260	78
	3,973,972	08/76	Muller	106	39.7
	3,980,483	09/76	Nishikubo et al	96	115
	4,002,669	01/77	Gross et al	260	486
	4,051,195	09/77	McWhorter	260	837
	4,081,492	03/78	Traenckner et al	260	837
	4,097,569	06/78	Waters	264	255
	4,097,994	07/78	Reaville et al	32	15
	4,098,735	07/78	Tobias	260	18
	4,100,045	07/78	Bogan et al	204	159.16

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Translation YES	Translation NO
mm	1,100,990	05/81	Canada		IN ENGLISH
	1,107,293	08/81	Canada		IN ENGLISH
	1,107,751	08/71	Canada		IN ENGLISH
	1,115,289	12/81	Canada		IN ENGLISH
	1,131,827	09/82	Canada		IN ENGLISH

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

mm		J. Klee et al, Acta Polymer 42 (1991) 17-20
		Fukushima et al; Dental Materials Journal 4(1): pages 33-39 (1985): Application of Functional Monomers for Dental Use (Part 9) Syntheses of Succinoy Methacrylates and Their Adhesion to Polished and Etched Tooth Surfaces
		Lin et al; Journal of Polymer Science; Part A: Polymer Chemistry, Vol. 30, 1941-1951 (1992)

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mm	4,135,868	01/79	Schainholz	422	310
	4,141,865	02/79	Bogan	260	18
	4,150,012	04/79	Joos	260	42.15
	4,177,563	12/79	Schmitz-Josten et al	433	228
	4,182,035	01/80	Yamauchi et al	433	228
	4,182,833	01/80	Hicks	528	120
	4,197,390	04/80	Jackson	528	115
	4,220,582	09/80	Orlowski et al	260	42.28
	4,229,376	10/80	Rogier	260	563 P
	4,253,830	03/81	Kazen et al	433	77

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Translation YES	Translation NO
mm	1,140,939	02/83	Canada		IN ENGLISH
	1,151,667	08/83	Canada		IN ENGLISH
	1,153,391	09/83	Canada		IN ENGLISH
	1,155,141	10/83	Canada		IN ENGLISH
	1,175,196	09/84	Canada		IN ENGLISH

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

mm		Allard et al; Journal of Polymer Science: Polymer Chemistry Edition, Vol. 22, 3827-3842 (1984)
		Hage et al; American Chemical Society (1986) Poly(acrylourethane)-Polyepoxide Semi-interpenetrating Networks Formed by Electron-Beam Curing
		Dubuisson et al; Rheol. Acta 20, 463-470 (1981)

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mm	4,255,468	03/81	Olson	427	137
	4,256,457	03/81	Behring	433	77
	4,284,742	08/81	Bowerman, Jr. et al	525	329
	4,293,074	10/81	Dunsky	206	572
	4,296,004	10/81	Rogier	260	18 EP
	4,308,085	12/81	Horhold et al	156	330
	4,362,889	12/82	Bowen	560	221
	4,368,889	01/83	Reker, Jr.	273	243
	4,383,826	05/83	Butler et al	433	228
	4,383,879	05/83	Le Du et al	156	307

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Examiner Initial	Document No.	Date	Country	Translation YES	Translation NO
mm	1,183,144	02/85	Canada		IN ENGLISH
	1,185,982	04/85	Canada		IN ENGLISH
	1,189,996		Canada		IN ENGLISH
	1,200,555	02/86	Canada		IN ENGLISH
	1,202,749	04/86	Canada		IN ENGLISH

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

mm		Klee; Acta Polymer., 45, 73-82 (1994) Telechelic prepolymers and macromonomers by step growth processes
		John Wiley & Sons; Encyclopedia of Polymer Science and Engineering, Vol. 8, Identification to Lignin
EXAMINER <i>gut</i> DATE CONSIDERED <i>7/5/03</i>		

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Examiner Initial	Document No.	Date	Name	Class	Subclass
hgm	4,384,853	05/83	Welsh	433	90
	4,391,590	07/83	Dougherty	433	90
	4,405,766	09/83	Bertram et al	525	507
	4,406,625	09/83	Orlowski et al	433	228
	4,413,105	11/83	Koenig	525	482
	4,431,421	02/84	Kawahara et al	433	228
	4,446,246	05/84	McGinniss	502	155
	4,467,079	08/84	Hechenberger et al	526	90
	4,514,342	04/85	Billington et al	260	952
	4,515,634	05/85	Wu et al	106	35

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Translation YES	Translation NO
hgm	1,210,777	09/86	Canada		IN ENGLISH
	1,219,990	03/87	Canada		IN ENGLISH
	1,227,202	09/87	Canada		IN ENGLISH
	1,235,423	04/88	Canada		IN ENGLISH
	1,242,213	09/88	Canada		IN ENGLISH

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U. S. PATENT DOCUMENTS					
Examiner Initial	Document No.	Date	Name	Class	Subclass
mm	4,524,161	06/85	Feuerhahn	523	414
	4,541,992	09/85	Jerge et al	422	300
	4,547,531	10/85	Waknine	523	116
	4,548,689	10/85	Sakashita et al	204	159.23
	4,557,848	12/85	Sung et al	252	51.5
	4,569,662	02/86	Dragan	433	89
	4,579,904	04/86	Orlowski et al	524	554
	4,595,734	06/86	O'Hearn	525	524
	4,643,303	03/87	Arp et al	206	370
	4,714,751	12/87	Schornick et al	528	103
FOREIGN PATENT DOCUMENTS					
Examiner Initial	Document No.	Date	Country	Translation YES NO	
mm	1,248,126	01/89	Canada	IN ENGLISH	
	1,258,465	08/89	Canada	IN ENGLISH	
	1,270,846	06/90	Canada	IN ENGLISH	
	1,272,735	08/90	Canada	IN ENGLISH	
	1,276,168	11/90	Canada	IN ENGLISH	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)					
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mm	4,758,643	07/88	Tanaka et al	526	279
	4,767,326	08/88	Bennett et al	433	90
	4,774,063	09/88	Runnells	422	297
	4,781,921	11/88	Smith et al	424	81
	4,789,620	12/88	Sasaki et al	430	280
	4,806,381	02/89	Engelbrecht et al	427	2
	4,816,495	03/89	Blackwell et al	522	14
	4,816,528	03/89	Dervan et al	525	438
	4,854,475	08/89	Riihimaki et al	220	337
	4,863,993	09/89	Montgomery	524	854

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Examiner Initial	Document No.	Date	Country	Translation YES NO
mm	1,276,648	11/90	Canada	IN ENGLISH
	1,277,070	11/90	Canada	IN ENGLISH
	1,281,734	03/91	Canada	IN ENGLISH
	1,283,121	04/91	Canada	IN ENGLISH
	1,283,663	04/91	Canada	IN ENGLISH

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hgm	4,866,146	09/89	Janda et al	526	213
	4,872,936	10/89	Engelbrecht	156	307.3
	4,874,799	10/89	Hung et al	522	96
	4,883,899	11/89	Muramoto et al	560	14
	4,918,136	04/90	Kawaguchi et al	524	751
	4,931,096	06/90	Fujisawa et al	106	35
	4,936,775	06/90	Bennett	433	220
	4,950,697	08/90	Chang et al	523	116
	4,959,199	09/90	Brewer	422	300
	4,963,093	10/90	Dragan	433	90

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hgm	1,290,766	10/91	Canada		IN ENGLISH
	1,296,015	02/92	Canada		IN ENGLISH
	2,002,017	05/90	Canada		IN ENGLISH
	2,004,624	07/90	Canada		IN ENGLISH
	2,005,912	06/90	Canada		IN ENGLISH

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	4,964,911	10/90	Ibsen et al	106	35
	4,969,816	11/90	Drumm	433	90
	4,985,198	01/91	Hirasawa et al	560	130
	4,985,516	01/91	Sakashita et al	526	196
	5,006,066	04/91	Rouse	433	77
	5,052,927	10/91	Discko, Jr.	433	90
	5,083,921	01/92	Dragan	433	90
	5,100,320	03/92	Martin et al	433	90
	5,106,301	04/92	Miyahara et al	433	214
	5,108,287	04/92	Yee et al	433	77
FOREIGN PATENT DOCUMENTS					
Examiner Initial	Document No.	Date	Country	Translation YES NO	
	2,006,431	06/90	Canada		IN ENGLISH
	2,006,432	06/90	Canada		IN ENGLISH
	2,006,433	06/90	Canada		IN ENGLISH
	2,006,434	06/90	Canada		IN ENGLISH
	2,008,895	08/90	Canada		IN ENGLISH
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mm	5,122,057	06/92	Discko, Jr.	433	90
	5,129,825	07/92	Discko, Jr.	433	90
	5,137,990	08/92	Corley	525	530
	5,151,479	09/92	Mukai et al	526	277
	5,165,890	11/92	Discko, Jr.	433	90
	5,166,117	11/92	Imai et al	502	169
	5,172,810	12/92	Brewer	206	369
	5,173,273	12/92	Brewer	422	300
	5,189,077	02/93	Kerby	523	116
	5,204,398	04/93	Cohen et al	524	403

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mm	2,009,471	08/90	Canada	IN ENGLISH
	2,010,210	12/90	Canada	IN ENGLISH
	2,012,824	09/90	Canada	IN ENGLISH
	2,014,027	10/90	Canada	IN ENGLISH
	2,014,359	10/90	Canada	IN ENGLISH

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mgm	5,210,157	05/93	Schutyser et al	525	502
	5,215,726	06/93	Kudla et al	422	297
	5,217,372	06/93	Truocchio	433	215
	5,235,008	08/93	Hefner, Jr. et al	525	529
	5,236,362	08/93	Cohen et al	433	228.1
	5,252,629	10/93	Imai et al	523	118
	5,267,859	12/93	Discko, Jr.	433	89
	5,279,800	01/94	Berr, Jr.	422	300
	5,284,632	02/94	Kudla et al	422	297
	5,294,413	03/94	Riihimaki et al	422	297

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Examiner Initial	Document No.	Date	Country	Translation YES NO
mgm	2,018,728	12/90	Canada	IN ENGLISH
	2,019,410	12/90	Canada	IN ENGLISH
	2,026,467	03/91	Canada	IN ENGLISH
	2,026,009	07/90	Canada	IN ENGLISH
	2,026,417	09/91	Canada	IN ENGLISH

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Serial No.

10/054360

Applicant: Klee et al

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hjm	5,322,440	06/94	Steele	433	90
	5,324,273	06/94	Discko, Jr.	604	240
	5,340,551	08/94	Berry, Jr.	422	300
	5,346,677	09/94	Risk	422	297
	5,360,877	11/94	Hwang et al	525	423
	5,384,103	01/95	Miller	422	310
	D 195,391	06/63	Pakison	D81	1
	D 315,956	04/91	Dragan	D24	14
	D 353,673	12/94	Discko, Jr. et al	D24	152

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Examiner Initial	Document No.	Date	Country	Translation YES NO
hjm	2,027,887	04/91	Canada	US AND EPO ABSTRACTS FROM DIALOG SEARCHES
	2,028,728	05/91	Canada	IN ENGLISH
	2,032,556	06/91	Canada	IN ENGLISH
	2,033,405	07/91	Canada	IN ENGLISH
	2,035,650	08/91	Canada	IN ENGLISH

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Examiner Initial	Document No.	Date	Country	Translation YES NO
Kmp	2,038,332	09/91	Canada	IN ENGLISH
	2,041,828	11/92	Canada	IN ENGLISH
	2,042,587	04/91	Canada	IN ENGLISH
	2,045,762	12/91	Canada	US AND EPO ABSTRACTS FROM DIALOG SEARCHES
	2,046,373	01/92	Canada	US AND EPO ABSTRACTS FROM DIALOG SEARCHES

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Examiner Initial	Document No.	Date	Country	Translation YES NO
mm	2,049,725	03/92	Canada	IN ENGLISH
	2,054,710	12/90	Canada	ENGLISH ABSTRACT FROM DIALOG
	2,054,747	11/90	Canada	IN ENGLISH
	2,054,757	12/90	Canada	ENGLISH ABSTRACT FROM DIALOG
	2,061,230	08/92	Canada	IN ENGLISH

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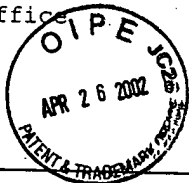
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Examiner Initial	Document No.	Date	Country	Translation YES NO
	2,061,539	08/92	Canada	IN ENGLISH
	227 363	01/84	Czechoslovak	X
	037 759	10/81	Europe	CLAIMS ONLY
	104 491	04/84	Europe	ENGLISH ABSTRACT FROM DIALOG
	115 410	04/84	Europe	IN ENGLISH

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mgp	115 948	08/84	Europe	IN ENGLISH
	120 559	01/83	Europe	IN ENGLISH
	188 752	12/84	Europe	US EQUIVALENT No. 4,714,751
	212 193	03/87	Europe	IN ENGLISH
	219 058	04/87	Europe	ENGLISH ABSTRACT FROM DIALOG

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Examiner Initial	Document No.	Date	Country	Translation YES NO
mm	277 413	10/88	Europe	IN ENGLISH
	356 868	03/90	Europe	IN ENGLISH
	141 667	05/80	Germany	X
	154 945	06/82	Germany	X
	208 365	05/84	Germany	ENGLISH ABSTRACT FROM DIALOG

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Examiner Initial	Document No.	Date	Country	Translation YES NO
mm	209 358	04/84	Germany	CLAIMS ONLY
	214 381	10/84	Germany	X
	229 140	10/85	Germany	ENGLISH ABSTRACT FROM DIALOG
	244 748	04/87	Germany	CLAIMS ONLY
	248 598	08/87	Germany	ENGLISH ABSTRACT FROM DIALOG

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Examiner Initial	Document No.	Date	Country	Translation YES NO
	261 365	10/88	Germany	CLAIMS ONLY
	277 078	03/90	Germany	CLAIMS ONLY
	277 689	04/90	Germany	CLAIMS ONLY
	279 667	08/90	Germany	ENGLISH ABSTRACT FROM DIALOG
	295 758	11/91	Germany	CLAIMS ONLY

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Examiner Initial	Document No.	Date	Country	Translation YES NO
mm	1 003 448	08/58	Germany	ENGLISH ABSTRACT FROM DIALOG
	2 126 419	12/71	Germany	ENGLISH ABSTRACT FROM DIALOG
	35 36 076	04/87	Germany	ENGLISH ABSTRACT FROM DIALOG
	35 36 077	04/87	Germany	ENGLISH ABSTRACT FROM DIALOG
	41 09 048	09/92	Germany	ENGLISH ABSTRACT FROM DIALOG

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Examiner Initial	Document No.	Date	Country	Translation YES NO
mm	41 41 174	06/92	Germany	ENGLISH ABSTRACT FROM DIALOG
	42 17 761	02/93	Germany	ENGLISH ABSTRACT FROM DIALOG
	1 304 987		Great Britian	IN ENGLISH
	2 045 269	10/80	United Kingdom	IN ENGLISH
	2 199 839	07/88	United Kingdom	IN ENGLISH

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	1-143846	/89	Japan	X
	1-254727	/89	Japan	ENGLISH ABSTRACT FROM DIALOG
	3-27308	06/89	Japan	X
	4-4219	/92	Japan	ENGLISH ABSTRACT FROM DIALOG
	4-120540	/92	Japan	ENGLISH ABSTRACT FROM DIALOG

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<i>mm</i>	52106	1937	USSR	X
	311 637	08/71	USSR	X
	311 638	08/71	USSR	X
	349 396	09/72	USSR	X
	545 353	02/77	USSR	X

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mm	549 150	03/77	USSR	X
	1 050 706	04/82	USSR	X
	1 510 131	11/86	USSR	X

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